PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202

Date of mailing (day/month/year)

O7 March 2001 (07.03.01)

International application No.
PCT/EP00/05980

ETATS-UNIS D'AMERIQUE
in its capacity as elected Office

Applicant's or agent's file reference
LP 1852 PCR

International filing date (day/month/year) 27 June 2000 (27.06.00)

Priority date (day/month/year)
29 June 1999 (29.06.99)

Applicant

BILANDŽ IC, Genoveva et al

İ		_
1.	The designated Office is hereby notified of its election made:	
ļ. 	X in the demand filed with the International Preliminary Examining Authority on:	
	17 January 2001 (17.01.01)	
	in a notice effecting later election filed with the International Bureau on:	
	-	
2.	The election X was	
	was not	
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).	
	• • • • • • • • • • • • • • • • • • •	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Olivia TEFY

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TRLATY

		From the INTERNATIONAL BUREAU			
PCT	To:				
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	Lon P.O CH-	GLER, Norbert, Hermai za AG Box 4002 Basel SSE	nn		
01 October 2001 (01.10.01)					
Applicant's or agent's file reference					
LP 1852 PCR		IMPORTANT NOT	IFICATION		
International application No.	Internation	onal filing date (day/month/y	ear)		
PCT/EP00/05980	27 .	lune 2000 (27.06.00)			
The following indications appeared on record concerning: X the applicant the inventor	the age	nt the comm	on representative		
Name and Address		State of Nationality	State of Residence		
ALUSUISSE MARTINSWERK GMBH Kölner Strasse 110		DE	DE		
D-50127 Bergheim Germany		Telephone No.			
Communy		Facsimile No.			
		Teleprinter No.,			
2. The International Bureau hereby notifies the applicant that	the fallersine				
the person X the name the administration that		the nationality	concerning: the residence		
Name and Address		State of Nationality	State of Residence		
MARTINSWERK GMBH Kölner Strasse 110		DE	DE		
D-50127 Bergheim Germany		Telephone No.			
		Facsimile No.			
•					
		Teleprinter No.			
3. Further observations, if necessary:					
4. A copy of this notification has been sent to:					
X the receiving Office	٢	the designated Offices	concerned		
the International Searching Authority	Ė	the elected Offices cond			
X the International Preliminary Examining Authority		other:			
The International Processing Course	Authorized	officer			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		Dominique D	ELMAS		
Facsimile No.: (41-22) 740.14.35	Telephone I	lo.: (41-22) 338.83.38			

PATENT COOPERATION TREATY

10/019022

DOT	From the INTERNATI	ONAL BUREAU
PCT	То:	
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 30 January 2002 (30.01.02)	RIEGLER, Norbert, Lonza AG P.O. Box CH-4002 Basel SUISSE	Hermann
Applicant's or agent's file reference		
LP 1852 PCR	IMPORTA	NT NOTIFICATION
International application No.	International filing date (day	y/month/year)
PCT/EP00/05980	27 June 2000 (27.0	06.00)
The following indications appeared on record concerning: The applicant the inventor	the agent t	he common representative
Name and Address	State of Nationa	lity State of Residence
MARTINSWERK GMBH	DE	DE
Kölner Strasse 110 D-50127 Bergheim	Telephone No.	
Germany		
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that	e following change has been r	ecorded concerning.
X the person X the name X the ac		
Name and Address	State of National	ity State of Residence
ALBEMARLE CORPORATION 451 Florida Street	US	US
Baton Rouge, LA 70801-1765	Telephone No.	· · · · · · · · · · · · · · · · · · ·
United States of America		
	Facsimile No.	
•	Teleprinter No.	
	releprinter No.	
3. Further observations, if necessary:		
5. Future observations, it necessary:		
A A copy of this motification by		
4. A copy of this notification has been sent to:		
X the receiving Office	the designated	Offices concerned
the International Searching Authority	X the elected Offi	ices concerned
the International Preliminary Examining Authority	H	SOS SONGENIEU
Committy	other:	
The later with the second	Authorized officer	
The International Bureau of WIPO 34, chemin des Colombettes		
1211 Geneva 20, Switzerland	Domin	ique DELMAS
acsimile No.: (41-22) 740.14.35	elephone No.: (41-22) 338 83 :	38



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From the INTERNATIONAL BUREAU

PCT ETHERAL SALAR AND ADDRESS OF THE PCT OF

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

RIEGLER, Norbert, Hermann Lonza AG P.O. Box

CH-4002 Basel SUISSF

Applicant's or agent's file reference

LP 1852 PCR

IMPORTANT NOTICE

International application No. International filing date (day/month/year)
PCT/EP00/05980 27 June 2000 (27.06.00)

Priority date (day/month/year)
29 June 1999 (29.06.99)

Applicant

Date of mailing (day/month/year)

04 January 2001 (04.01.01)

ALUSUISSE MARTINSWERK GMBH et al

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AG,AU,BZ,DZ,KP,KR,MZ,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CN,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

 Enclosed with this Notice is a copy of the international application as published by the International Bureau on 04 January 2001 (04.01.01) under No. WO 01/00529

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the **national phase**, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Form PCT/IB/308 (July 1996)

Facsimile No. (41-22) 740.14.35

3744203

Continuation of Form PCT/IB/308

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

Date of mailing (day/month/year) 04 January 2001 (04.01.01)	IMPORTANT NOTICE
Applicant's or agent's file reference LP 1852 PCR	International application No. PCT/EP00/05980

The applicant is hereby notified that, at the time of establishment of this Notice, the time limit under Rule 46.1 for making amendments under Article 19 has not yet expired and the International Bureau had received neither such amendments nor a declaration that the applicant does not wish to make amendments.



EINGEGAMREN

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INFORMATION CONCERNING ELECTED OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

From the INTERNATIONAL BUREAU

RIEGLER, Norbert, Hermann Lonza AG P.O. Box CH-4002 Basel SUISSE

Date of mailing (day/month/year)

07 March 2001 (07.03.01)

Applicant's or agent's file reference

LP 1852 PCR

IMPORTANT INFORMATION

International application No.

PCT/EP00/05980

International filing date (day/month/year) 27 June 2000 (27.06.00)

Priority date (day/month/year) 29 June 1999 (29.06.99)

Applicant

ALUSUISSE MARTINSWERK GMBH et al

1. The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:

AP:GH,GM,KE,LS,MW,MZ,SD,SL,SZ,TZ,UG,ZW

EP:AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE

National :AU,BG,CA,CN,CZ,DE,IL,JP,KP,KR,MN,NO,NZ,PL,RO,RU,SE,SK,US

2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

EA:AM,AZ,BY,KG,KZ,MD,RU,TJ,TM

OA:BF,BJ,CF,CG,CI,CM,GA,GN,GW,ML,MR,NE,SN,TD,TG

National :AE,AG,AL,AM,AT,AZ,BA,BB,BR,BY,BZ,CH,CR,CU,DK,DM,DZ,EE,ES,FI,GB,

GD,GE,GH,GM,HR,HU,ID,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MW, MX,MZ,PT,SD,SG,SI,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW

The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The entry into the European regional phase is postponed until 31 months from the priority date for all States designated for the purposes of obtaining a European patent.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer:

Olivia TEFY

Telephone No. (41-22) 338.83.38



From the INTERNATIONAL BUREAU **PCT** NOTIFICATION OF THE RECORDING RIEGLER, Norbert, Hermann EINGEGANGEN OF A CHANGE (PCT Rule 92bis.1 and P.O. Box 10. Okt. 2001 Administrative Instructions, Section 422) CH-4002 Basel Erl. WR SUISSE Date of mailing (day/month/year) 01 October 2001 (01.10.01) Applicant's or agent's file reference IMPORTANT NOTIFICATION LP 1852 PCR International application No. International filing date (day/month/year) PCT/EP00/05980 27 June 2000 (27.06.00) 1. The following indications appeared on record concerning: the applicant the inventor the agent the common representative Name and Address State of Nationality State of Residence ALUSUISSE MARTINSWERK GMBH DE DE Kölner Strasse 110 D-50127 Bergheim Telephone No. Germany Facsimile No. Teleprinter No. 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: the person X | the name the address the nationality the residence Name and Address State of Nationality State of Residence MARTINSWERK GMBH DE DE Kölner Strasse 110 D-50127 Bergheim Telephone No. Germany Facsimile No. Teleprinter No. 3. Further observations, if necessary: 4. A copy of this notification has been sent to: X the receiving Office the designated Offices concerned the International Searching Authority the elected Offices concerned the International Preliminary Examining Authority other: Authorized officer The International Bureau of WIPO 34, chemin des Colombettes Dominidue DELMAS 1211 Geneva 20, Switzerland

Telephone No.: (41-22) 338.83.38

Form PCT/IB/306 (March 1994)

Facsimile No.: (41-22) 740.14.35

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	T	
LP 1852 PCR	FOR FURTHER ACTION B	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP00/05980	International filing date (day/month/yea 27/06/2000	Priority date (day/month/year) 29/06/1999
International Patent Classification (IPC) or na C01F7/14	tional classification and IPC	
Applicant		
ALUSUISSE MARTINSWERK GMB	H	
		this International Preliminary Examining Authority
and is transmitted to the applicant a	ccording to Article 36.	this international Preliminary Examining Authority
2. This REPORT consists of a total of	4 sheets, including this cover sheet	
This report is also accompanied been amended and are the basi	by ANNEXES, i.e. sheets of the de	escription, claims and/or drawings which have kining rectifications made before this Authority
(see Rule 70.16 and Section 60	7 of the Administrative Instructions	under the PCT).
These annexes consist of a total of 2	2 sheets.	
3. This report contains indications relati	ng to the following items:	
I ⊠ Basis of the report		
Ⅱ □ Priority		
III	inion with regard to novelty, inventiv	/e step and industrial applicability
IV	,,	and modernal applicability
V 🛛 Reasoned statement und citations and explanation	der Article 35(2) with regard to novel s suporting such statement	lty, inventive step or industrial applicability;
VI Certain documents cited		
VII Certain defects in the inte	ernational application	
	he international application	
Date of submission of the demand	Date of comple	etion of this report
17/01/2001	12.10.2001	
Name and mailing address of the international preliminary examining authority:	Authorized office	Cer (#160°E3 Mily)
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 el	Grundke, H	A SECONDARY OF THE SECO
Fax: +49 89 2399 - 4465		+49 89 2399 8564

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/05980

I.	Bas	is of	the	report
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1	a	ie receiving Onice in	nents of the international applic response to an invitation under to this report since they do not c	' Article 14 are	referred to in this re	aport ac "originally filed"
	1.	-10	as originally filed			
	С	laims, No.:				
	1-	9	as received on	23/07/2001	with letter of	23/07/2001
2.	Jai	iguage in which the t	uage, all the elements marked nternational application was file vailable or furnished to this Aut	ed, unless othe	erwise indicated und	ler this item.
			ranslation furnished for the purp			
		the language of pu	blication of the international app	olication (unde	er Rule 48.3(b))	(dilder Fidic 20.1(b)).
			ranslation furnished for the purp			examination (under Rule
3.	Wi	th regard to any nucl ernational preliminary	eotide and/or amino acid seq	uence disclos n the basis of	sed in the internation the sequence listing	nal application, the g:
		contained in the inte	ernational application in written	form.		
			he international application in co		able form.	
			ently to this Authority in written f			
		furnished subseque	ently to this Authority in compute	er readable fo	rm.	_
		The statement that	the subsequently furnished writ plication as filed has been furni	tten seauence		beyond the disclosure in
		The statement that listing has been furn	the information recorded in comnished.	nputer readab	le form is identical to	the written sequence
4.	The	e amendments have r	resulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
5.		This report has been considered to go be	n established as if (some of) the yond the disclosure as filed (Ru	e amendments ale 70.2(c)):	s had not been made	e, since they have been

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/05980

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-9

No:

Claims

Inventive step (IS)

Yes:

Claims 1-9

No: Claims

Industrial applicability (IA)

Yes: Claims 1-9

No: Claims

2. Citations and explanations see separate sheet

INTERNATIONAL PRELIMINARY International application No. PCT/EP00/05980 EXAMINATION REPORT - SEPARATE SHEET

Item V:

Reference is made to the following document/s/:

D1: A.R. GERSON ET AL.: 'Influence of solution constituents, solution conditioning and seeding on the crystalline phase of aluminium hydroxide using in situ X-ray diffraction' JOURNAL OF CRYSTAL GROWTH, vol. 160, no. 3,4, 1996, pages 346-354, XP002151672

D2: US-A-4 847 064 (PEARSON ALAN) 11 July 1989 (1989-07-11)

Though production of gibbsite type aluminium hydroxides via bayerite crystal seeding is known from documents D1 and D2, the prior art has not recognized the significance of the influence of a selected grain diameter range of the seed crystals in order to improve in aluminium hydroxide the rheological properties when blended with synthetic resins. The present claimed invention achieves this improvement in a novel route, which is not obvious from the cited art.

Claims

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- 1. A process for the preparation of gibbsite type aluminium hydroxides, wherein a liquor obtained from the Bayer process is seeded with bayerite crystals having a grain diameter in the 50% range (d_{50}) of 1.2 μ m to 2.2 μ m.
- 2. The process of claim 1, wherein the molar ratio of Na₂O to Al₂O₃ in the Bayer liquor is from 1.4:1 to 1.55:1.
- 3. A process according to any one of claims 1 to 2, wherein the bayerite crystals have a rain diameter in the 10% range (d_{10}) of 0.5 μm to 0.9 μm and in the 90% range (d_{20}) of 3.5 μm to 5.5 μm.
- 4. A process according to any one of claims 1 to 3, wherein the bayerite crystals are added in an amount of 1 g/l to 3 g/l at a liquor temperature of 50 °C to 70 °C.
 - 5. A process according to any one of claims 1 to 4, wherein after seeding the process mixture is stirred under precipitation until the molar ratio of Na₂O to Al₂O₃ is in the range of 2.2:1 to 3.5:1.
 - 6. A gibbsite type aluminium hydroxide having a grain diameter in the 50% range (d₅₀) of 1.5 μm to 4.5 μm, in the 10% range (d₁₀) of 0.4 μm to 2.0 μm and in the 90% range (d₉₀) of 3.0 μm to 9.5 μm, a surface area (according to BET) from 1.0 m²/g to 4.0 m²/g and an aspect ratio from 4:1 to 6:1.
 - 7. A mixture of gibbsite type aluminium hydroxides, characterised in that it has a grain diameter in the 50% range of (d_{50}) 4 to 20 μ m and contains a gibbsite type aluminium hydroxide according to claim 6 or a gibbsite type aluminium hydroxide obtained by a process according to any one of claims 1 to 5.

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- 8. A synthetic resin containing a gibbsite type aluminium hydroxide according to claim 6 or obtained by a process according to any one of claims 1 to 5.
- The use of a gibbsite type aluminium hydroxide according to claim 6 or obtained by a
 process according to any one of claims 1 to 5 as a fire retardant additive in synthetic resins.



PCT

INTERNATIONAL SEARCH REPORT

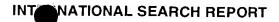
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of	of Transmittal of International Search Report
LP 1852 PCT	ACTION (Form PCT/ISA/2	220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 00/05980	27/06/2000	29/06/1999
Applicant		
ALUSUISSE MARTINSWERK GMBH	<u></u>	
This International Search Report has been according to Article 18. A copy is being tra	prepared by this International Searching Authorsmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists	of a total of3sheets.	
	a copy of each prior art document cited in this	report.
Basis of the report a. With regard to the language, the in-	otornotional annual various states and a second	
language in which it was filed, unle	nternational search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the
the international search wa Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this
 With regard to any nucleotide and was carried out on the basis of the 	for amino acid sequence disclosed in the int	ternational application, the international search
	sequence listing : nal application in written form.	
	national application in computer readable form	1.
	this Authority in written form.	
	this Authority in computer readble form.	
international application as	sequently furnished written sequence listing do filed has been furnished.	es not go beyond the disclosure in the
the statement that the infor furnished	mation recorded in computer readable form is	identical to the written sequence listing has been
2. Certain claims were found	d unsearchable (See Box I).	
3. Unity of Invention is lacki	·	
4. With regard to the title ,		
the text is approved as sub		
The text has been established	ed by this Authority to read as follows:	
With regard to the abstract.		
 With regard to the abstract, the text is approved as subject. 	mitted by the applicant	
the text has been established	ed, according to Rule 38.2(b), by this Authority	as it appears in Box III. The applicant may
— within one month from the c	late of mailing of this international search repo	ort, submit comments to this Authority.
6. The figure of the drawings to be publis		
as suggested by the application because the applicant failed		X None of the figures.
because this figure better cl	_	

INT NATIONAL SEARCH REPORT

remational Application No

PCT/EP 00/05980 CLASSIFICATION OF SUBJECT MATTER IPG.7 C01F7/14 C01F7/02 C08K3/22 C09K21/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C01F C08K C09K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 9 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. χ A.R. GERSON ET AL.: "Influence of 1,9 solution constituents, solution conditioning and seeding on the crystalline phase of aluminium hydroxide using in situ X-ray diffraction" JOURNAL OF CRYSTAL GROWTH, vol. 160, no. 3,4, 1996, pages 346-354. XP002151672 Υ 10,11 page 348; table 2 Χ Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled "P" document published prior to the international filing date but in the art later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 1 November 2000 15/11/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Zalm, W Fax: (+31-70) 340-3016



ternational Application No PCT/EP 00/05980

0 10	Allery Doguerra construction	
C.(Continu Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ.	DATABASE WPI . Section Ch, Week 199737 Derwent Publications Ltd., London, GB; Class A14, AN 1997-399664 XP002151673 & JP 09 176367 A (SUMITOMO CHEM CO LTD), 8 July 1997 (1997-07-08)	10,11
A	abstract	7,8
X	SATPATHY B K ET AL: "DEVELOPMENT OF SPECIAL GRADE HYDRATE AND ALUMINA", PROCEEDINGS OF THE TMS ANNUAL MEEETING, US, WARRENDALE, TMS, VOL. MEETING 123, PAGE(S) 147-153 XP000625565 ISBN: 0-87339-264-7 table 3	7,8
X	US 4 847 064 A (PEARSON ALAN) 11 July 1989 (1989-07-11) column 4, line 23 - line 25; claims	1
A	EP 0 589 432 A (MARTINSWERK G M B H FUER CHEMI) 30 March 1994 (1994-03-30)	

INT NATIONAL SEARCH REPORT

information on patent family members

PCT/EP 00/05980

Patent document cited in search repo		Publication date	!	Patent family member(s)	Publication date
JP 9176367	Α	08-07-1997	NONE		
US. 4847064	A	11-07-1989	WO US US	9015777 A 5149520 A 5225229 A	27-12-1990 22-09-1992 06-07-1993
EP 0589432	А	30-03-1994	DE CA DE ES HU JP SK US US	4231874 A 2105956 A 59300505 D 2075750 T 66730 A,B 6199519 A 102093 A 5492542 A 5500480 A	24-03-1994 24-03-1994 28-09-1995 01-10-1995 28-12-1994 19-07-1994 06-04-1994 20-02-1996 19-03-1996